POWER REQUIREMENT STUDY

DOUGLAS COUNTY PUBLIC UTILITY DISTRICT

WASHINGTON 47 DOUGLAS

(Revised)



Prepared by
Program Analyst
Office of the Administrator
RURAL ELECTRIFICATION ADMINISTRATION

June 1952

# POWER REQUIREMENT STUDY 1/

# WASHINGTON 47 DOUGLAS (Revised)

### Foreword

This study has been prepared by the Rural Electrification Administration for use in determining the present and estimated future power requirements of the Douglas County Public Utility District (Washington 47 Douglas).

The estimates of future loads contained in the study have been arrived at from a field survey in the Cooperative's area and from basic data obtained in the Cooperative's office. The estimates of kwh consumption for farm, nonfarm and town residential consumers used herein are based upon a projection of historical trends in consumption, type of farm, income, competitive sources of energy, and other economic factors which are believed to have a bearing on the future use of electricity in this area,

The estimates of average unit kilowatt demands per consumer at peak load, corresponding to the estimated average kilowatt-hour consumption per member per month of farm, nonfarm and small commercial consumers, have been derived from the curve "Maximum Demand at Substation" accompanying Engineering Memorandum No. 94R5 of the Engineering Division, REA, dated August 21, 1950. The total number of consumers to be served in each substation area, rather than the number of consumers in a particular class, was used as a basis in arriving at the total and unit demands in order to reflect the probable overall diversity between classes of consumers in a given substation area. No adjustment for a power factor less than unity was applied, it being assumed for estimating purposes that the KVA demand as read from the curve was equal to the KW demand at the substation.

### Summary and Conclusions

Pertinent information reflecting the data and conclusions arrived at regarding the present and future number of consumers, kilowatt-hour requirements, and kilowatt demands for the Douglas County Public Utility District (Washington 47 Douglas) are included in the attached Tables I to VII, inclusive.

Table VII (Summary of Power Requirements) indicates that approximately 4,917 consumers will be served by the Cooperative in 1954, 4,979 in 1957, and 5,188 in 1962, at an estimated maximum demand at substation of 27,317 kilowatts in 1954, 22,827 kilowatts in 1957, and 16,900 kilowatts in 1962. Likewise, it is estimated that the Cooperative's annual energy requirements at substations will approximate 151,6 million kilowatt-hours in 1954, 120,5 million kilowatt-hours in 1954, and 72,4 million kilowatt-hours in 1962.

1/ Based on a field survey conducted by Frank W. Squier, Field Representative, Applications and Loans Division, REA, USDA.

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# Busydy and Conclusions

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Title TI (Summary of Power Reculrements) indicates that approximately 4,917 consumers will be saved by the Cooperative in 1550, 6,678 in 1557, and 5,167 at 1562, at was said at 1562, at 1562,

M Steed on a sigl survey conducted by Frank W. Souler, Mali Removentu-

The degree of attainment of area coverage by the Cooperative, as well as the achievement of the estimated kilowatt-hour consumption foreseen in this report, are contingent on the following important considerations:

- 1. An adequate, dependable source of low-cost power supply.
- 2. Dependable, adequate electrical power to the ultimate consumer with a minimum of interruption in service and at the lowest retail rate commensurate with "pay out" considerations.
- 3. A fully prosecuted power use program designed to attain the goals of saturation of appliances and farm equipment reflected by the estimates included in this report.

E. C. Weitzell, Program Analyst In the content of the orthogon of the contents, as not a content of the content o

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TABLE 1

COMPARATIVE ANNUAL OPERATING DATA ON CONSUMERS AND AVERAGE MONTHLY CONSUMPTION

		FARM		NONFAR	NONFARM RESIDENTIAL	NTIAL	SWALL	SMALL COMMERCIAL	IAL.	STREET	Ĭ	LTG.	IRRIG		SPRAY
YEAR	MEMBERS NO.	AVERAGE KWH/MO. SINCR.	SINCR.	MEMBERS NO.	AVERAGE KWH/MO. %INCR.	AVERAGE H/MO. %INCR.	MEMBERS NO.	AVERAGE KWH/MO. %INCR.	%INCR.	MEMBERS NO.		AVERAGE KWH/MO. %INCR.	MEMBERS NO.		KWH/MO. %INCR
1945 1/	59	3,572	n 8	202	260	oa eta	22	820	1	6	424	1			
1946	102	284	ŧ	189	235	\$ \$	64	521	1	~	969	ı	54	5,674	1
1947	911	346	21.8	237	6/2	18.7	100	505	-3.1	61	562	14.2	50	4,907	-13.5
1948	426	366	5.8	172	375	3404	138	464	*8°1	83	167	3.5	37	3,092	-37.0
1949	429	500	36.96	318	438	16,8	164	538	15.9	8	1,082	4101	37	4,733	53.1
1950	516	576	15.2	2,031	376	-14.2	446	764	42.0	4	1,924	77.8	272	3,441	-27.3
1951	757	525	8 8 8	2,383	411	606	520	927	21.3	2	3,189	6507	222	4,270	24.1
1952 2/	447	873	;	2,579	587	8	659	894	20	9	3,788	1	17	107	3
UN OF YEARLY & (1946 - 1951)	SUM OF YEARLY GINCR. [1946 = 1951] AVERAGE PER YEAR	NCR.	70.6			65.0		•	68.0			195.3			-0.6

1/ EIGHT MONTHS ONLY.
2/ THREE MONTHS ONLY.

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TABLE 1 (CONTOD.)

COMPARATIVE ANNUAL OPERATING DATA ON CONSUMERS AND AVERAGE MONTHLY CONSUMPTION

No. KWH/MO. %INCR. NO. KWH/MO. %INCR. NO. KWH/MO. NO. KWH/MO. NO. KWH/MO. %INCR. NO. KWH/MO. MEMBER    1			6	L L		なようこと			2	3		and the same of the same of		-
1 225,231 12 23,516 2 1,474 951 2,88 1,083 1 242,427 7,06 3 34,393 46,3 1 288,267 3 1,739,742 33,712 2,162	YEAR	MEMBER.	S AVERA KWH/MO.	GE GINCR.	MEMBE!	RS AVER KWH/MO.	AGE %INCR.	MENBERS NO. P	AV.	WEMBERS NO.	AV. KWH/MO.	MENBERS NO.	AVER KWH/MO.	% INCR.
2 1 2474 501 12 23516 2454 653 3,280 1,053 2 1,288,267 3 1,5739,742 3 1,5739,742 3 1,5739,742 3 1,5739,742 2,162	1945 1/									2	14,851	288	1,083	1
1 225,231 — 12 23,516 — 2 1,474 95,9 1 242,427 7.6 3 34,393 46,3 3,690 1,053 2/ 1 288,267 — 9 1,739,742 — 33,712 2,162	1946											390	740	1
2 1 3474 501 - 12 23,516 2 13,474 951 653 3,280 855 1 242,427 7.06 3 34,393 46.3 3,890 1,053 3,712 2,162	1947											493	869	7.5.7
1 225,231 12 23,516 2 1,474 951 653 1 242,427 7.6 3 34,399 46.3 855 2/ 1 288,267 3 1,739,742 3 1,739,742 2.162	1948											874	501	-28.2
1 225,231 — 12 23,516 — 855 1 242,427 7.6 3 34,393 46.3 3,890 1,053 2/ 1 288,267 — 3 1,739,742 — 3 1,739,742 2.162									13474			951	653	30.3
1     242,427     7.06     3     34,393     46.3     3,890     1,053       2/     1     288,267      3     1,5739,742      3,15739,742     2,162		-	225,231	1	12	23,516						3,280	855	30.9
1 288,267 3 1,739,742 3 1,739,742		944	242,427	2°2	6	34,393	46.3					3,890	1,053	23 . 2
	1952 2/		288,267	1	8	1,739,742	8					3,712	2,162	1

1/ EIGHT MONTHS ONLY.
2/ THREE MONTHS ONLY.

PROGRAM AMALYST, OFFICE OF THE ADMINISTRATOR, REA - JUNE 1952

TABLE 11

COMPARATIVE ANNUAL OPERATING DATA ON EMERGY REQUIREMENTS

WASHINGTO	WASHINGTON 47 DOUGLAS (REV.)	(REV.)									
	ENERGY	>	ENERGY	<b>/</b> :	ENERGY	λε	MAXIMUM	AVERAGE	TOTAL	TOTAL	OVERALL
YEAR	PURCHASED	SED	SOLD		LOSSES	S	A.X	COST	MILES	SERVICES	CONSUMER
	KWH	%INCR.	KWH	% INCR.	KWET	%10SS	DEMAND	PER KWH	ENERG! ZED	CONNECTED	DENSITY
1945 1/	2,401,400	i	2,076,818	ł	324,582	13.5	*	\$ *00651	09	317	5.28
1946	4,995,931	ŧ	3,457,233	2	1,538,698	30.8	1,170	*00413	<i>L</i> 9	490	7.31
1947	4,969,879	-0.5	4,124,525	1903	845,354	17.0	1,786	96600"	486	565	1.22
1948	6,124,370	23 ° 5	5,252,433	6-12	871,937	34.2	1,764	.00324	486	988	1.82
1949	8,370,500	36.7	7,450,585	41.9	919,915	11.0	2,082	-00321	496	186	1.98
1950	39,730,113	374.6	33,632,192	35104	6,097,921	1503	4,386	• 00308	069	3,523	5-11
1951	55,202,206	38.9	49,135,449	46.1	6,066,757	0 • 1	11,974.4	60600	821	4,223	5.14
1952 2/	25,470,720	8	24,076,036	1	1,394,684	8	11,724.9	00283	821	4,260	5.19
SUM OF YEARLY %19 (1946 - 1951) AVERAGE PER YEAR	SUM OF YEARLY %INCR. (1946 - 1951) AVERACE PER YEAR	472.9 94.6		486°0 97°2		1203					
				And an incident the second sec							

1/ EIGHT MONTHS ONLY. 2/ THREE MONTHS ONLY.

\* NOT AVAILABLE.

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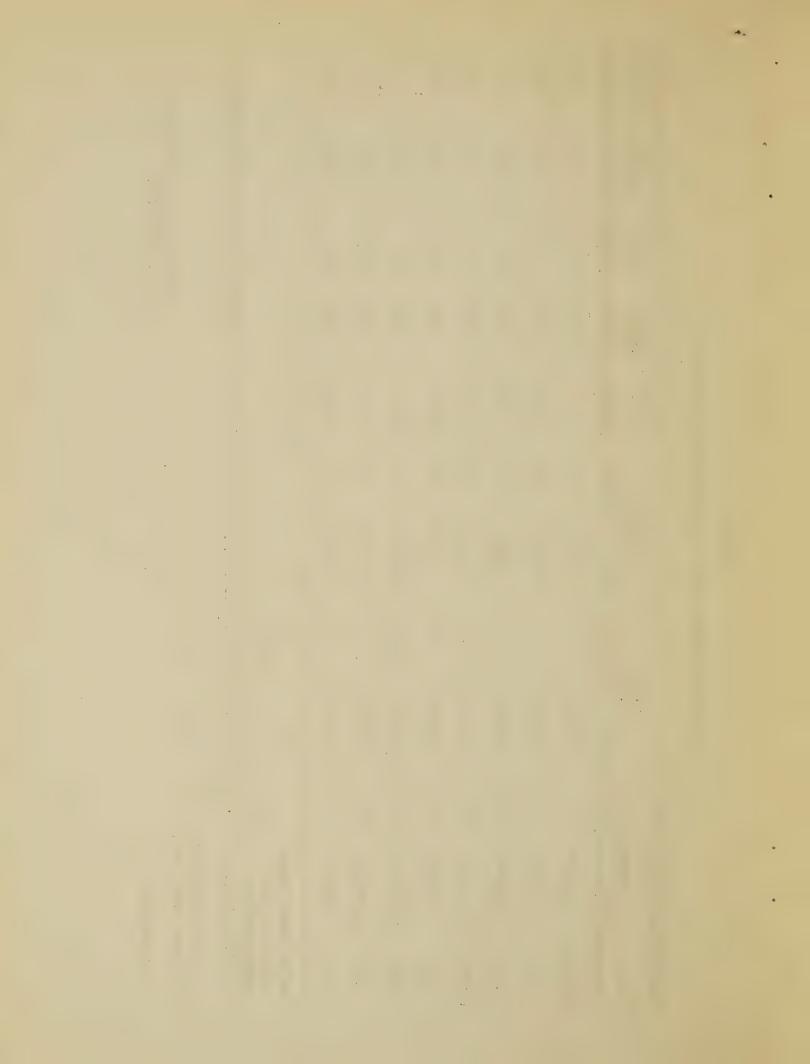


TABLE III

ESTIMATE OF LOADS - CHIEF JOSEPH SUBSTATION AREA

WASHINGTON AT DINIGIAS (REV.)									
	NUMBER	OF CONSI	CONSUMERS		KW DEMAND		ANNUAL	WH REQUIREMENTS	NTS
TVDE OF CONSINER	1054		1962	1954	1957	1962	1954	1957	1962
				@2,310	@20535	@2c927	. 00180	009600	@119400
CAGN	275	285	295	635	722	863	2,392,500	2,736,000	3,274,500
TAKE				@1.542	@1.655	@1.849	65700	@6120	0069@
MONEADM (DEC.)	1,200	1,200	1.300	1.850	1,986	2,404	6,840,000	7,344,000	8,970,000
Man Theory				@1.0772	@1.849	61.923	00999	00698	@7 200
SMALL CHARFECIAL	300	300	275	532	555	529	1,980,000	2,070,000	1,980,000
	0			@18/2.0DF	@18/2.0DF	@18/2,0DF	000 6 160	000,160	@33,000
IARGE COMMERCIAL	17	17	16	153	153	144	629,000	629,000	528,000
A STATE OF THE PROPERTY OF THE				@9/1033DF	@9/10330F	@9/1033DF	@25,700	@26 \$300	@26,300
PAIRS 1C BUILDINGS *	33	33	33	223	223	223	848,100	867,900	867,900
LARGE POWER:				@56/200F	@56/2°00F	@56/2.0DF		•	
DYE HAWLEY MOTEL		-	_	28	28	28	119,900	125,000	125,000
				@30/1.1DF	@30/101DF	@30/1°10F	. ,		
STEAK HOUSE	Econoly			2.1	27	27	236,400	240,000	240,000
				@5500/1.1DF			,		
SHIEF JOSEPH BUILDERS	Cong	92000	CO AND	5,000	60 CM	8	26,000,000	CO-ese	C-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
				@2000/1.1DF	@2000/1.5DF	M.0-2008			
POWER HOUSE CONSTRUCTION	Comp	-	C3 60	1,818	1,333	9	12,000,000	000,000,9	
						@600/1°2DF			
SHALL INDUSTRIES (POTENTIAL)	(1)	8	a	42700	000	1,000	60.00	4840	5,000,000
				@25/1025DF	@25/1°250F	@25/1.25DF	@41,466	@413466	0412466
STREET LIGHTING	3	3	6	09	9	9	124,400	124,400	124,400
				@34/3,0DF	@34/3.0DF	@34/300F	09910	09910	09910
SPRAY (INSECTICIDE)	4	4	4	45	45	45	6,640	6,540	6,540
ATAL	, 82K	945	1 030	10.371	25.	5,323	51.176.940	20,142,940	21,116,440
000-1000	0/0*1	Choo.	2661						
C.C. SALE SERVICES. Market States of the Property of the Prope	100	The state of the s							

GONBUNERS INCLUDED IN THIS CLASS ARE IN ACCORDANCE WITH STATE OF WASHINGTON REQUIREMENTS.

NOTE: DEMAND IS BASED ON ACTUAL DEMAND.

PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - JUNE 1952

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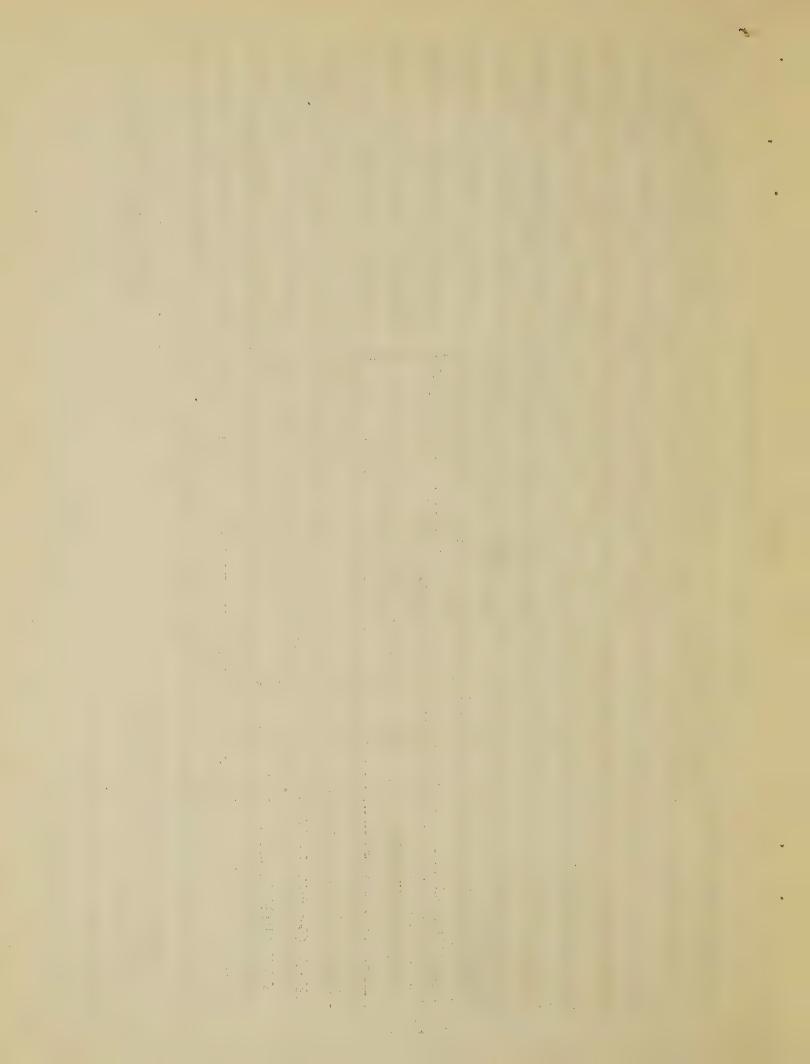


TABLE 111 (CONT "D.)

ESTIMATE OF LOADS - CHIEF JOSEPH SUBSTATION AREA

MASHINGTON 47 DOUGLAS (REV.)									
	NIMBER	NUMBER OF CONSUMERS	SUMERS		KW CENAND		ANNE	ANNUAL KWH REGUIREMENTS	MENTS
TYPE OF CONSULER	1954	1957	1962	1954	1957	1962	1954	1957	1962
BROLIGHT FORWARD	1.836		1, 930	175,01	5-132	ECE 2	51,176,940	20,142,940	21,116,440
LARGE POWER (CONT'D.):				013.5/1.33UF 011/1.33DF	@11/1.33DF	@11/1.330F	025,000	018,000	.000,810
IRRIGATION	94	123	126	954	1,017	1,042	2,068,000	2,214,000	2,268,000
				@41/1.5DF	@41/105DF	@41/1.50F			
PUD OFFICE		-	_	27	27	27	75,000	75,000	75,000
SUB-TOTAL							53,319,940	22,431,940	23,459,440
							\$010	012%	61%
PLUS DIST. LOSSES (APPROX.)							5,924,060	3,059,060	3,505,560
	•		,				,		
TOTAL	1,931	1,931 1,969 2,057	2,057	11,252	921*9	6,392	59,244,000	25.491,000	26,965,000
					ANNUAL LOAD FACTOR -	FACTOR -	59.6%	47 - 19	48.2%

PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - JUNE 1952



TABLE IV

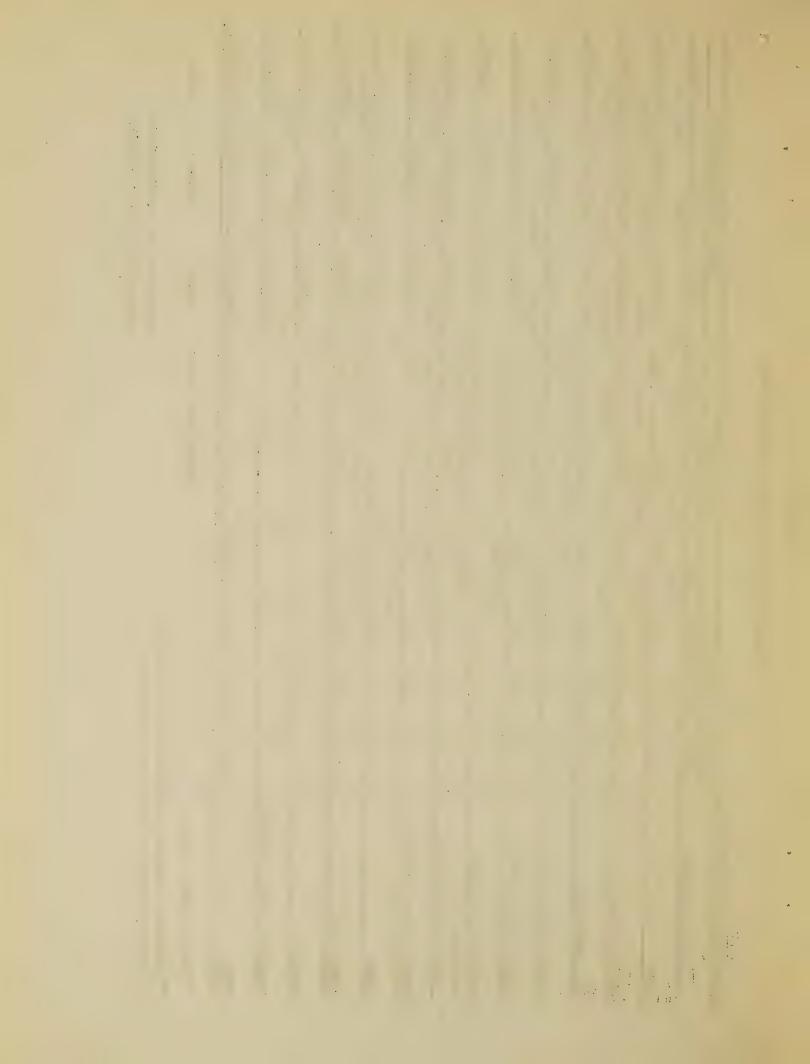
# ESTIMATE OF LUADS - CHELAN SUBSTATION AREA

WASHINGTON 47 DOUGLAS (REV.)									
	NUMBER	OF CONSUMERS	UMERS		KW DEWAND		ANNO	ANNUAL KWH REQUIREMENTS	ENTS
TYPE OF CONSUMER	1954	•	1962	1954	1957	1962	1954	1957	1962
				@2.310	@2-535	@2.927	. 00 282	009600	.001,110
FARM	180	190	200	416	482	585	1.566,000	1.824,000	2,220,000
			·	@1.542	01.655	@1.849	002500	@6120	00690
NONFARM (RES.)	2.130	2,230	2,320	3.284	3,691	4.290	12,141,000	13,647,600	16,008,000
				<b>@2.</b> 662	@2.662	@2,562	@10,080	@10,080	030,080
SMALL COMMERCIAL	168	188	210	447	500	559	1,693,440	1,895,040	2,116,800
				@16/3.0DF	@16/3.0DF	@16/3.0DF	,	•	
LARGE COMMERCIAL	6	6	3	16	91	91	105,650	107,500	107,500
				@9/1.25DF	@9/1.25DF	@9/1.25DF	@21,800°	e23,722	@24,262
PUBLIC BUILDINGS **	37	37	37	266	592	266	806.700	877,700	897,700
				@20/3,0DF	\$20/3,0DF	@20/3.0DF		,	•
PUD OFFICE BUILDINGS		-	-	7	7	7	50,000	50,000	50,000
MUN ICIPAL				@1000/i.25DF	@1200/1.25 DF	@1500/1.25DF			
(CITY OF WATERVILLE)	•	-	-	800	096	1,200	3,347,000	3,639,000	4,369,000
				@10/1,1DF	@10/1.1DF	@10/1.1DF	@28,743	@28,743	@28,743
STREET & HGWY, LIGHTING	4	4	4	36	36	36	114,972	114,972	114,972
				@10/3.5UF					
SPRAY	901	Egypter 1	1	(302)*	8 8	0.00	51,500		***
				@15/1.5DF	@15/1.50F	@15/1.5DF	000 960	,000*96@	@36,000°
IRRIGATION	355	355	355	3,550	3,550	3,550	12,780,000	12,780,000	12,780,000
SUB-TOTAL							32,656,262	34,935,812	38,669,972
							@15%	@15%	615%
PLUS DIST. LOSSES (AFPROXI)							5,762,738	6,165,188	6,823,028
TOTAL	2,985	3,009	3,131	8,827	9,508	10.509	38,419,000	41,101,000	45,487,000
* NOT INCLUDED IN TOTAL.					ANNUAL	ANNUAL LOAD FACTOR	- 49.7%	49.3%	49.4%

<sup>\*</sup> NOT INCLUDED IN TOTAL.

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CONSUMERS INCLUDED IN THIS CLASS ARE IN ACCORD-ANCE WITH STATE OF WASHINGTON REQUIREMENTS.



ESTIMATE OF LOADS - SUMMARY OF POWER REQUIREMENTS (BY CLASSIFICATION OF CONSUMERS)

	NUNBE	NUMBER OF CONSUMERS	MERS		KYI DENAAND		ANNO	ANNUAL KWII REQUIREMENTS	MENTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1962
FARM	455	475	495	1,0051	1,204	1,448	3,958,500	4,560,000	5,494,500
NONFARM (RES.)	3,330	3,430	3,620	5,134	2,677	6,694	18,981,000	20,991,600	24,978,000
SWALL COMMERCIAL	468	488	485	626	1,055	1,088	3,673,440	3,965,040	4,095,800
LARGE COMMERCIAL	50	50	19	169	691	160	734,650	736,500	635,500
PUBLIC BUILDINGS	20	02	10	489	489	489	1,654,800	1,745,600	1,765,600
PUD OFFICE	23	હ્ય	62	34	34	34	125,000	125,000	125,000
DYE HAWLEY MOTEL	-	•••		88	28	28	119,900	125,000	125,000
STEAK HOUSE	-	-	-	23	27	12	236,400	240,000	240,000
CHIEF JOSEPH BUILDERS	Bartish	0	0	5 0000	1	;	26,000,000	1	;
POWER HOUSE CONSTRUCTION	eprob.	•••	0	818	1,333	ŧ	12,000,000	000,000,6	Ů B
SMALL INDUSTRIAL (POT.)	0	0	2	1	1	1,000	1	:	5,000,000
SUB-TOTAL	4,349	4,488	4,695	14,729	910001	10,968	67,483,690	38,488,740	42,460,400

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PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - JUNE 1952

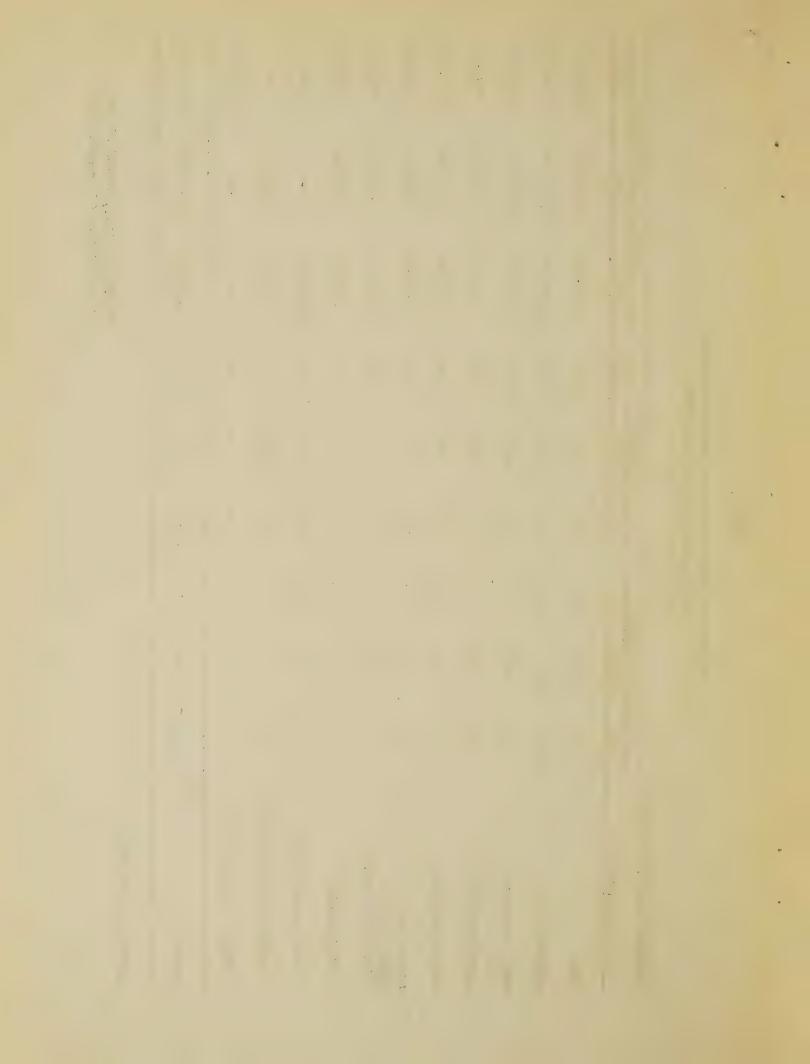


TABLE V (CONT'D.)

ESTINATE OF LOADS - SUMMARY OF POWER REQUIREMENTS (BY CLASSIFICATION OF CONSUMERS)

	NUMB	NUMBER OF CONSUMERS	INERS		KW DEMAND		*	ANNUAL KINH REQUIREMENTS	REMEMTS
TYPE OF CONSUMER	1954	1957	1965	1954	1957	1962	1954	1957	1965
BROUGHT FORWARD	4,349	4,488	4,695	14,729	10,016	10,968	67,483,690	38,488,740	42,450,400
STREET LIGHTING	~	~	2	96	96	96	239,372	239,372	239,372
SPRAY (INSECTICIDE)	110	4	<b>4</b>	45	45	45	58,140	6,640	6,640
IRRIGATION MINICIPAL &	449	478	481	4,504	4,567	4,592	14,848,000	14,994,000	15,048,000
(CITY OF MATERTOWN)	-	-	•••	800	096	1,200	3,347,000	3,639,000	4,369,000
SUB-TOTAL							85,976,202	57,367,752	62,123,412
PLUS DIST. LOSSES (APPROX.)							11,586,798	9,224,248	10,328,588
TOTAL	4,916	4,978	5,188	20,174	15,684	16,901	000*699*16	66,592,000	72,452,000
					ANNUAL LO	ANNUAL LOAD FACTOR -	- 55.3%	48.5%	48.9%

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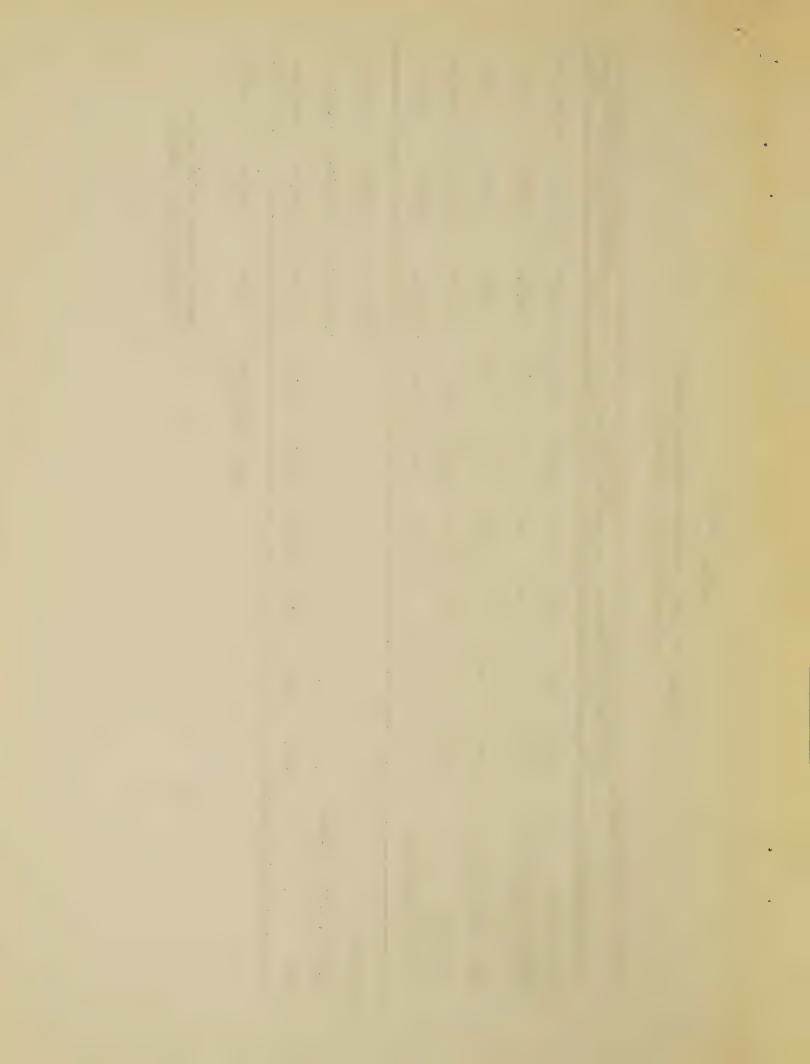


TABLE VI

ESTIMATE OF LOADS - ROCK ISLAND SUBSTATION AREA

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	NUMBER	UMBER OF CONSUMERS	JMERS		KW DEMAND		ANNUA	ANNUAL KWH REDUIREMENTS	STNTS
TYPE OF CONSUMER	1954	1957	1962	1954	1957	1962	1954	1957	1062
LARGE POWER: KEOKUCK ELECTRIC METAL CO.	Ī		ĝ.	67500/1.05DF 7.143	67500/1,050F @7500/1,050F 7,143 7,143	2 3	54.000.000 54.000.000	54.000.000	-
TOTAL	-	_	;	7.143	7.143		24 000 000 kg	000 000	
								000,000,000	

ANNUAL LOAD FACTOR -

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86.3%

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TABLE VII

ESTIMATE OF LOADS - SUMMARY OF POWER REQUIREMENTS

	NUMBE	NUMBER OF CONSUMERS	IMERS		KW DEMAND		ANNI	ANNUAL KWH REQUIREMENTS	MENTS
SUBSTATION AREA	1954	1957	1962	1954	1957	1962	1954	1957	1962
CHIEF JOSEPH	18661	696*1	2,057	11,352	921.9	6,392	59,244,000	25,491,000	26,965,000
CHELAN	2,985	3,009	3,131	8,822	9,508	10,509	38,419,000	41,101,000	45,487,000
ROCK ISLAND	-	-	1	7,143	7,143	:	54,000,000	54,000,000	1
TOTAL	4,917	4,979	5,188	716,72	22,827	16,900	151,663,000	120,592,000	72,452,000
					ANNUAL	ANNUAL LOAD FACTOR -	IR - 63.4%	%6.09	48.9%

PROGRAM ANALYST, OFFICE OF THE ADMINISTRATOR, REA - JUNE 1952

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